

**AMENDMENT TO THE SPECIFICATION**

*I. Please replace the first line in page 1 of the original specification with:*

~~“Description~~ TITLE OF INVENTION”.

*II. Right after the Invention Title in page 1 of the original specification, please add:*

**“CROSS-REFERENCE TO REALATED APPLICATIONS**

This is PCT U.S. National Phase Application under 35 U.S.C. 371 claiming priority of International Application No. PCT/KR2004/001917 filed on 29 July 2004, which claims the priority of Korean Patent Application No. 10-2003-0052239 filed on 29 July 2003.

**STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT**

“Not Applicable”

**THE NAMES OF THE PARTIES TO A JOINT RESEARCH AGREEMENT**

“Not Applicable”

**INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC**

“Not Applicable”

**BACKGROUND OF THE INVENTION”**

*III. Please replace the section title between Paragraphs [6] and [7] in page 2 of the original specification with:*

~~“Disclosure of Invention~~ BRIEF SUMMARY OF THE INVENTION”

~~Technical Problem~~

*IV. Please replace the section title between Paragraphs [22] and [23] in page 5 of the original specification with:*

~~“Description of Drawings~~ BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWINGS”

V. Please replace the section title between Paragraphs [30] and [31] in page 6 of the original specification with:

~~“Best Mode~~ DETAILED DESCRIPTION OF THE INVENTION”

VI. Please replace the Paragraph [3] in page 1 of the original specification with (only punctuation period mark added after “enabled” in line 4):

“Meanwhile, distance measurement in the field where a high performance localization must be performed in a wide area such as a multi-body mobile robot must be implemented in a non-contact method. A multi-body must be recognized respectively at the same time and a distance detection of at least several tens of meters range must be enabled. Furthermore, it is required that the distance measurement be implemented inexpensively and meets requirements such as good detection, stability, real-time and indoor measurement.”

VII. Please replace Paragraph [52] in page 9 of the original specification with:

“Referring to FIG. 6, the distance measurement device using ultrasonic according to a preferred embodiment of the present invention includes a 40 KHz ultrasonic sensor. A received waveform is sampled into 5 MHz and is then displayed. In FIG. 6, the concept of the distance measurement device using ultrasonic in short is shown schematically. In the concrete, the device according to this embodiment includes a clock, an ultrasonic transmitter, a sensor, an amplifier, an analog filter, a secondary amplifier, an A/D converter, a memory, a digital signal processor or a central process unit (CPU), a display unit, a numerical input unit and a communication unit.”